

## Abstract

The invention pertains to a method of determining a colour formula for matching a selected colour measured with an electronic imaging device, which method  
5 comprises the following steps:

- a) an electronic imaging device is calibrated by measuring the colour signals of at least two calibration colours, the colorimetric data of each of the calibration colours being known;
  - b) at the same time or in a next step the selected colour is measured with  
10 the aid of the electronic imaging device;
  - c) using a mathematical model, parameters are calculated for converting the measured colour signals of the calibration colours to the known colorimetric data;
  - d) using the mathematical model and the calculated parameters, the colour  
15 signals of the measured selected colour are converted to colorimetric data; and
  - e) using a databank, the colour formula is determined of which the colorimetric data most closely matches the calculated colorimetric data of the measured selected colour.
- 20 The invention also comprises a method of determining a colour formula for matching a selected colour of textured materials such as special effect paints and to a method of determining the colour difference of a selected colour measured with an electronic imaging device compared to a standard colour sample.
- 25 The invention has the advantage that it is possible to make use of inexpensive consumer electronics. The method according to the invention also makes it possible to measure a specific attribute of the colour appearance, the so-called texture.